

Rocky Flats Environmental Technology Site

CHEMICAL CHARACTERIZATION PACKAGE

SECURITY BUILDING CLUSTER CLOSURE PROJECT

REVISION 1

February 20, 2001

Prepared by:	Jane (Industrial Hygiene
Prepared by:	Mary	Environmental Compliance
Reviewed by:	him of	Quality Assurance
Reviewed by:	1	RISS Facility Characterization Coordinator
Approved by:)///ran	Closure Project Facility Manager

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ADMIN RECCRD

IA-A-000855

CHEMICAL CHARACTERIZATION PACKAGE

BUILDING(s): SECURITY CLUSTER (550, 761, 901, 762, 762A, 792, 792A)

- * This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.
- * PDSP Data Quality Objectives were used to develop this characterization package.

Instructions:

- 1. Verify characterization activities are on the Plan-of-the-Day (POD).
- 2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
- 3. Verify personnel have appropriate training for the applicable tasks they will be performing.
- 4. Comply with RWP requirements, if applicable.
- 5. Comply with JHA and facility PPE requirements, as applicable.
- 6. Inform the Facility Manager, or designee prior to starting characterization activities.
- 7. Follow applicable characterization and sampling procedures.
- 8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
- 9. Coordination with the Environmental Rescusation Program organization will be required to further characterize underneath facility foundations and slabs prior to removal.
- 10. Collect and maintain all characterization paperwork in the Project File(s), and all electronic data in the appropriate D&D RISS subdirectory.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
550, 761 & 901	10 per building	Asbestos inspections have not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure. Suspect materials include drywall, base cove, floor insulation and roof.
762 & 792	11 per building	Asbestos inspections have not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure. Suspect materials include window caulking, roof and flashing, ceiling tile, floor tile, base cove and drywall.
762A & 792A	24 per building	Asbestos inspections have not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure. Suspect materials include ceiling tile, drywall, base cove, roof and flashing, pipe insulation, linoleum, exterior soffit texture, transite, window caulking.
Total Samples:	100	The exact sample numbers and locations will not be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

BERYLLIUM		
Sample Location	Number of Samples (smears)	Sample location and justification/rational
550, 761, 901, 762, 762A, 792, 792A	14 – biased	There is no documented supporting data or process history that proves beryllium was not used or stored in these buildings. Therefore, two biased



		samples from each of the seven building will be obtained. Buildings have similar history and can be treated as one area.
Total Samples:	14	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

LEAD		
Sample Location	Number of Samples	Sample location and justification/rational
Security Cluster, all locations	0	Lead sampling is not required for Security Cluster buildings. All paint will remain a part of the infrastructure during demolition and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. In addition, these buildings were constructed in 1982, 1983, and 1989, and lead based paint is not probable. Sampling for lead for IH requirements will be at the discretion of the demolition contractor.
Total Samples:	0	

Sample Location	Number of Samples	Sample location and justification/rational
Security Cluster	0	No hazardous activities that may have resulted in RCRA or CERCLA constituents occurred in the Security Cluster buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and HVAC systems. Care will need to be taken to ensure these wastes are managed properly.
Total Samples:	0	

Sample Location	Number of Samples	Sample location and justification/rational
Security Cluster	0	The Security Cluster buildings were constructed in 1982, 1983, and 1989. PCB contamination in the structural debris is not probable. No sampling is required. Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities, such as light ballasts. Care will need to be taken to ensure these wastes are managed properly.
Total Samples:	0	

^{*} PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.

Page 1 of 1

RESERVOIRS ENVIRONMENTAL SERVICES, INC. TDH 30-0136 NVLAP Accredited Laboratory #1896

TABLE 1. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

Client:

Date Samples Received: Analysis Type: Turnaround: Client Project:

Kaiser-Hill Analytical Services Division On-Site Anlaysis, EFDA1721, A. Gonzales RES 76252-1&2

March 29, 2001 PLM Short Report, Bulk

On-Site

l urnaround:				A SPECTOS CONTENT Non-Aspestos	Non-Asbestos	Non-Fibrous
Client Sample	Lab ID Number	L Physical a Description	of Total Sample	BY LAYER	Fibrous Components	Components {%}
Number		> U →		Mineral Visual Estimate (%)	(%) (%)	
					90	20
762-0328-2001-05-001	EM 534662	A Brown felt	8 20	Chrysotile 60 Chrysotile 15	2	08
			C	Chrysotile TR	10	96
762-0328-2001-05-002	EM 534663	A Slive paint		Point Count TR	30	80
		B Black fibrous tar w/black tar	GB GB	2	3	
		Tomolite Artinolite		Analyst: PDL		

ND = None Detected TR = Trace, < 1% Visual Estimate

Point Count Trace ≈ 0 biserved but not countable under protocol, < 0.25%rem-Act = Tremolite-Actinolite

TR = Trace, < 1% Visual Estimate

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RESERVOIRS ENVIRONMENTAL SERVICES, INC. NVLAP Accredited Laboratory #1896 TDH 30-0136

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES 76202-1

Kaiser-Hill Anafytical Services Division On-Site Semple Analysis-0100636

PLIM Short Report, Bulk March 27, 2001

Date Samples Received:

Chant Project:

Client

RES Job Mumber:

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Client Lab ID L Physical Description Sample Number y Description 762A-03222001-05-001 EM 534199 A White ceiling tile 762A-03222001-05-002 EM 534201 A White mud w/white & tan paint 762A-03222001-05-004 EM 534202 A White mastic 762A-03222001-05-005 EM 534203 A White mastic 762A-03222001-05-006 EM 534203 A White mastic 762A-03222001-05-006 EM 534203 A White mastic 762A-03222001-05-006 EM 534203 A White mastic 762A-03222001-05-007 EM 534205 A Tan mastic 762A-03222001-05-006 EM 534205 A White mud w/white paint	Portion ASBESTOS CONTENT INOU-ASDESTOS of Total Sample {%} {%} {%ineral Visual Estimate (%) 100 ND 70
EM 534200 A EM 534201 B EM 534202 A EM 534203 A EM 534204 B EM 534205 A	BY LAVER Mineral Estimate (%) ND
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EM 534200 A EM 534201 A EM 534202 A EM 534203 A EM 534204 A B C C C C C C C C C C C C	QN QN
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EM 534204 A T	
EM 534205 A	10 00 00 00 00
EM 534205 A	O 0N 001
762A-03222001-05-008 EM 534206 A White rrud w/white paint B White/ten drywall	00 OF
792A-03192001-05-001 EM 534207 A White ceiling tile	100 NB 70
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RESERVOIRS ENVIRONMENTAL SERVICES, INC. TDH 30-0136

NVLAP Accredited Laboratory #1896

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

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RES 76202-1 Kaiser-Hill Analytical Services Division Ort-Site Sample Analysis-01D0636 March 27, 2001 PLM Shart Report, Bulk 24 Hour

Client Project: Date Samples Received: Analysis Type: Turnaround:		Uct-site sampe Analyse March 27, 2001 PLM Short Report, Bulk 24 Hour	March 27, 2001 PLM Shart Report, Bulk				1
Client Sample Number	Lab ID Nomber	a > a > .	Pinysical Description	Portion of Total Sample (%)	ASBESTOS CONTENT BY LAYER Mineral Visual Estimata (%)	Non-Asbestos Fibrous Components {%}	Non-fibrous Components (%)
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792A-03192001-05-003	EM 534209	A White mestic B Tan/white tile	astic e tile	93		٥٥	100
792A-03192001-05-004	EM 534210	A White mastic	astic	100	QN	0	100
792A-03192001-05-005	EM 534211	A White ma	White mud w/brown paint Tan drywall	15 85	ON .	15	100 85
792A-03192001-05-606	EM 534212	A White tape B White/tan o	White tape White/tan drywall White mud w/white paint	04 08 50	N ON ON	98 20 0	2 <u>88</u> 0.
792A-03192c01-05-007	EM 534213	A White ceiling tile	iling the	100	QN	70	30
792A-03192001-05-008	EM 534214	A Red resir	Red resinous material w/gray paint	100	GN	2	85
792A-83192001-05-009	EM 534215	A White/gray fibrous wov	Vhite/gray granula: plaster w/white brous woven material Vhite foam	20	QN QN	20	100
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NO = Note Detected TR = Trace, < f % Visual Estimate

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RESERVOIRS ENVIRONMENTAL SERVICES, INC. NVLAP Accredited Laboratory #1896 TDH 30-0136

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES 76202-1 Kaiser-Hill Analytical Services Division On-Site Sample Analysis-01D0636 March 27, 2001 PLM Short Report, Bulk 24 Hour
RES Job Number: Client: Client Project: Date Semples Raceived: Analysis Type: Turnaround:

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,		A White(may oran)	White forey gradular plaster w/white	50	QN	20	80	
792A-03192001-05-011	EM 534217		aterial	50	ON	Ó	100	
707 62707001-05-001	EM 534218			100	QN	92	£	
32-03202001-03-002	EM 534219	A White ceiling the		100	QN	02	30	
792-03202001-05-003	EM 534220	A White mud w/white paint B White/tan drywall	hite paint III	25. 28	ON ON	o स	100 85	
792-03202001-05-004	EM 534221		hite paint Al	15 35	ON ON	O &	100 85	
792-03202001-05-005	EM 534222			0.08	ON ON	00	100	
792-03202001-05-006	EM 534223	A White tape B White tape C White mud w/brown paint	al! rown paint	15 20 65	ON ON ON ON	0 8 0 0	100	
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Rocky Flats Environmental Technology Site

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Rocky Flats Environmental Technology Site.
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Rocky Flats Environmental Technology Site

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	defined with the second	¥	Analysis Request	Seal# (Release #)	
Heport and balling insulation	A. Com ale	snpul	Industrial Hygiene Sample	Condition of Seal: ☐ Broken ☐	Unbroken
	(423)	Slandard	Rush Other		
a	1 Garaler	Service	Asbestos Samples	Comments:	
DynCorp U Bill 10: WS! D.O.#/Release:_	a	Standard			
Lab:	Wateryells.		Ē	ian Rine - Originator	
White	White - Return to Originator	or Yellow - Lab Copy	by Green - Sample Custodian		

Ø 007

03/28/01 WED 10:16 FAX 863 9196

0100030

Safety and Hygiene Chain of Custody Record and Analysis Request

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464

RES, ENV. SERV.

८ छ **४** Time/Date Lab Number Time/Date Time/Date Time/Date ☐ Unbraken o an Date: 3/27/01 REMARKS Received by Received by Green - Sample Custodian Blue - Originator Received by Hereived by Broken Condition of Seat. Seal# (Pelease #) Comments: I 402 8001 Signature: 16727 Persona Area Bei≢ Bldg/Ext: /k/ Relinquished by Relinquished by Relinquished by Relimpuished by **₹** Ø 64 industrial Hygiene Sample Oher MEDIA Asbestos Samples O Test t Analysis Request ž Alsh T. S. S. SAMPLE (S DOS TIME Yellow - Lab Copy □ 4 tg 10-17-5 3501 **Time/Date** Time/Date Time/Date Time/Date YOLUME Standard lers Service Sarvice 4 88 A White - Return to Originalor Title: ANALYZE FOR Received by R. D. D. D. No. / Lead Received by Received by A: (DO17:62 , Garrer Received by P.O.#/Release: EFOA (72.1 PACKETORIT Achie 66.28 Name of Originator: A. Connels Report and Billing Instruction Report To: 100-50-10056150-ACNT Verbal To: 500-50-109thse-4CML 162 A - 05523001-05-05 1614-03222001-05-008 7924-03142801-05-002 1924-07192001-05-006 7424-01M7001-05-007 762A-03223001-05-003 404-50-1000stg0-45-7424-03:42001-05-001 400-50-10003150-4686 742 A-0319 2001-05-005 200-50-10016120-4266 7924-0319281-05-80 600-50-10000050-477 100-50-1001220- N. 45 Fax To: Bill To: Refinquished by Refinquished by Refinduished by SAMPLE NUMBER BIOGN/M/D/P#/S# Reflipoquie) ned by lab: Kaiser-Hill DynCorp RMRS SSOC SAS

REP F 3791.32 (785) Furmerly RF-47530

2008 WED 10:16 FAX 863 9196 RES. ENV. SERV. 03/28/01 at the Page Lof 2 Lab Number Time/Date Time/Date Time/Date Time/Date ☐ Unbroken 6 gar Date: 3/17/01 PLM REMARKS Green - Sample Custodian Blue - Originator Received by Received by Received by Received by ☐ Broken Condition of Seat. Seal# (Release #) 2402 8001 Comments: Signature: Bldg/Ext. 116/2027 Persona Area Bu**i**k Relinquished by Relinquished by Relinquished by Relinquished by **4** B Industrial Hyglene Sample MEDIA Asbestos Samples S Parison ē Analysis Request ed) នី F.S. Rush 800 Cilo SAMPLE TIME Yellow - Lab Copy **□** % € 3.27.01 ADSOL Time/Date Time/Date Time/Date Time/Date Standard Standard 52-569 VOLUME Service iters Service 3507 THI 1288 Y White - Return to Originator Tee: D. 08/16-6 ANALYZE FOR Received by, Commenter. Received by Received by Received by 1. Courses resentally P.O.#/Release: EFD# (72) 1 shetter 827 E Name of Originator: 1. Cont. 2.4.2 Report and Billing Instruction Report To: Verbal To: 741-0320201-05.004 741-05201001-05-002 242-0320 2001-05.00 - 195 -03192001-05-010 794-03202001-05-003 180-50-1881450-19L 147-03/20301-05-091 1924-03192001-05-009 1914-0319201-05-011 Fax To: Bill To: Relinquished by Relinquished by Relinquished by SAMPLE NUMBER BIOGY/M/D/P#/S# ingerished by Lab: শ্ Kaiser-社劃 DynCorp **FIMPS** SSOC WS

PSP F 3781 32 (7/85) Formerly PF-47530

010 0636

Safety and Hygiene Chain of Custody Record and Analysis Request

Golden, CO 80402-0464

Rocky Flats Environmental Technology Site

E-DEMOLITION SURVEY FOR SECURITY CLU

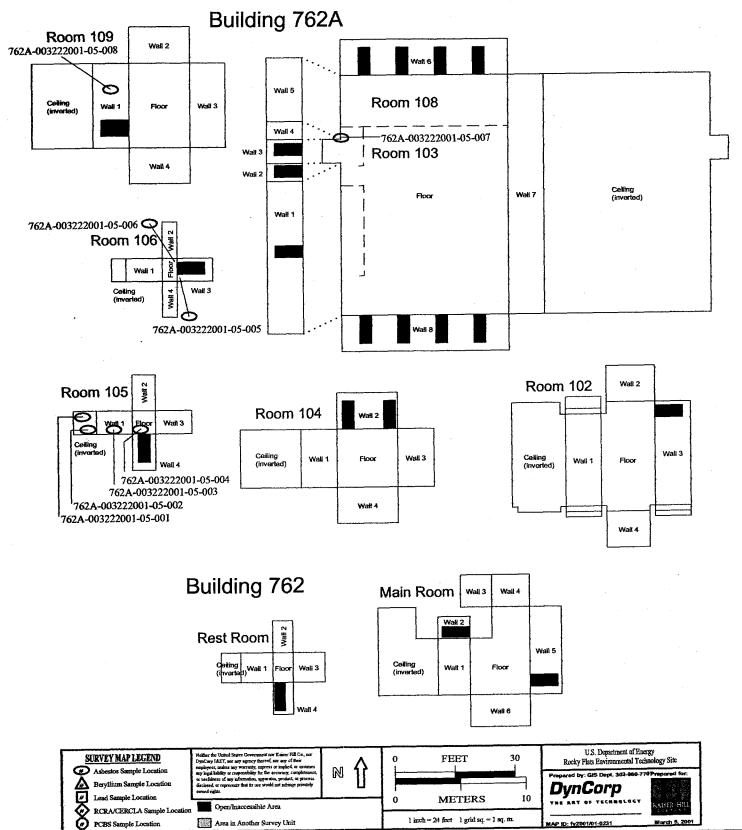
Survey Unit: SEC-A-001

Classification: N/A

Building: 762, 762A, 792, 792A Survey Unit Description: Interiors

Total Area: 1820 sq. m.

Total Floor Area: 516 sq. m.



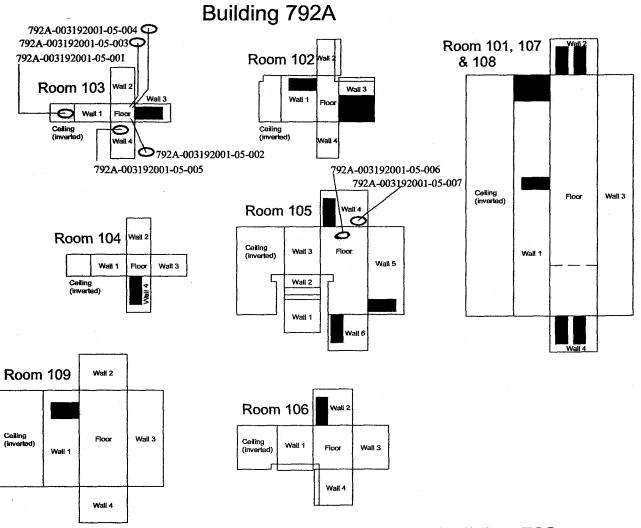
E-DEMOLITION SURVEY FOR SECURITY CL

Survey Area: A Survey Building: 762, 762A, 792, 792A Survey Unit: SEC-A-001

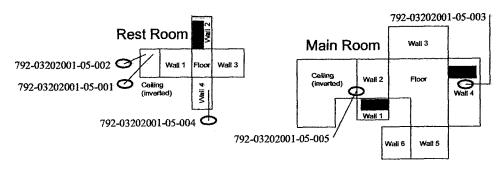
Classification: N/A

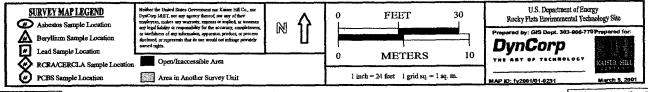
Survey Unit Description: Interiors Total Area: 1820 sq. m.

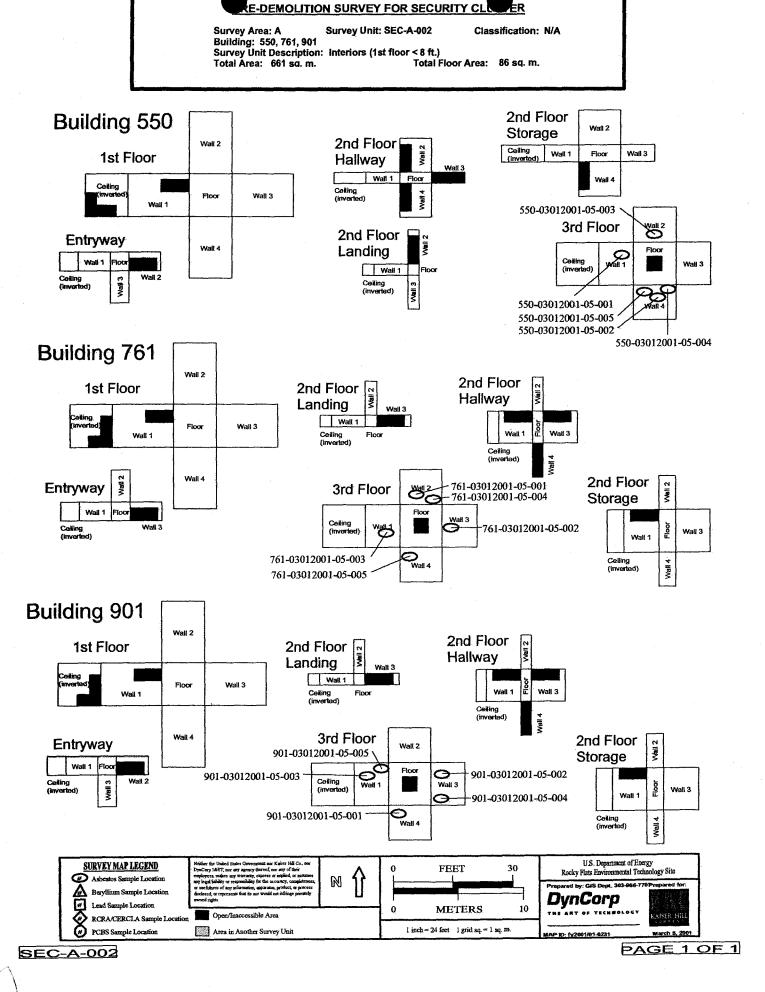
Total Floor Area: 516 sq. m.

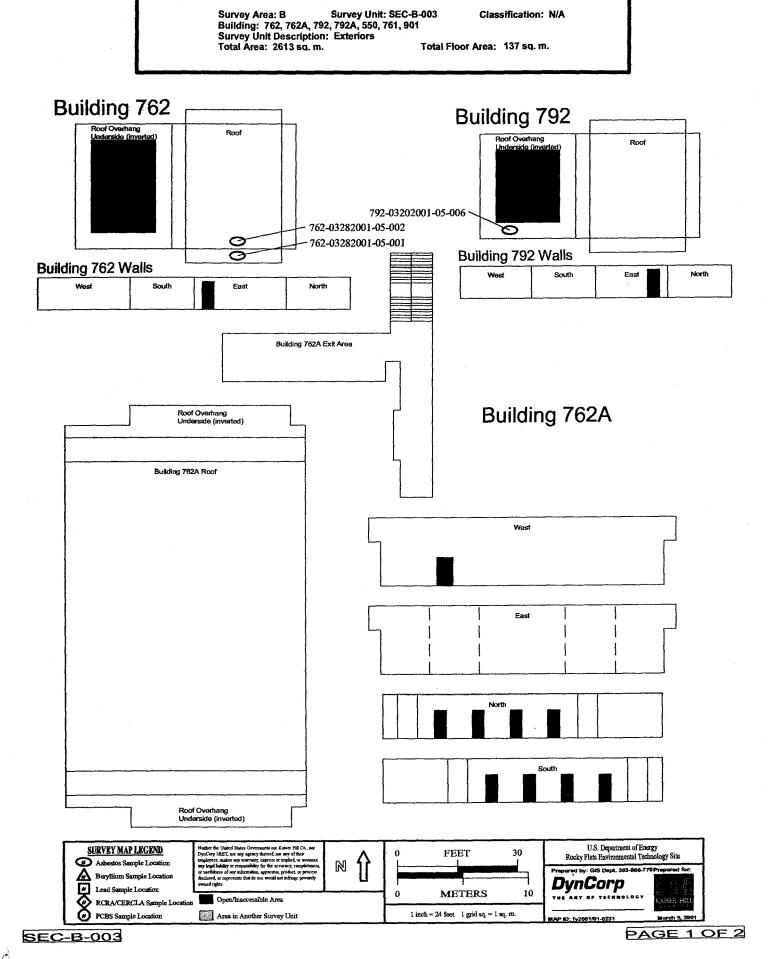








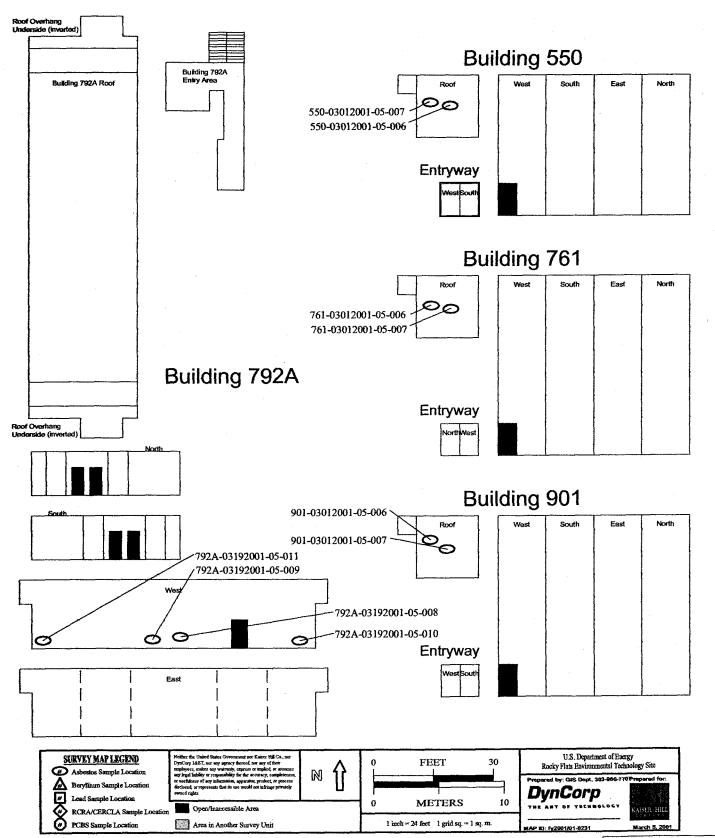




E-DEMOLITION SURVEY FOR SECURITY CL

E-DEMOLITION SURVEY FOR SECURITY CL Classification: N/A

survey Area: B Survey Unit: SEC-B-003 Building: 762, 762A, 792, 792A, 550, 761, 901 Survey Unit Description: Exteriors Total Area: 2613 sq. m. Total Floor Area: 137 sq. m.



RESERVOIRS ENVIRONMENTAL SERVICES, INC. TDH 30-0136 NVLAP Accredited Laboratory #1896

Page 2 of 4

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:

Kaiser-Hill Anahrūcal Services Division On-site Sample Anahysis-01D0546, A. Gonzales March 05, 2001 PLM Short Report, Bulk 24 Hour RES 75658-1 Client Client Project: Date Samples Received:

Analysis Type: Furnaround:

Cilent Sample Number	Lab ID Number	L Physical a Description y	Portion of Total Sample	ASBESTOS CONTENT BY LAYER	Non-Ashestos Fibrous	Non-Fibrous Components
		∞ ►	<u>8</u>	Mineral	(%)	Ê
				73		
550-03012001-05-001	EM 529562	A White tape B White mud w/white paint C White/fan drowall	ro 0 r	ON ON	98	100
550-03012001-05-002	EM 529563	A White tape B White mud w/white paint C Whitehan damen	ପ୍ରଥ	ON QN	20 98 0	80
550-03012001-05-003	EM 529564	A White tape B White mid w/white paint C Whiteman down	82 / 82	ON ON	15 98 0	85 100
550-03012001-05-004	EM 529565	A Brown mastic B White mud	8 % %	O O	<u>र</u> ु ८०	88 89 89
550-03012001-05-005	EM 529566	A Gray resinous material	100		P 5	
550-03012001-05-006	EM 529567	A White resinous paint B Black resinous material	ထင္	QN	· ·	100
		C Black fibrous far w/tan resin D Yellow foam	188	O O O	Q Q	100 20 001
550-03012001-05-007	EM 629568	A White resinous paint B Black/gray reshous material C White foam	5 4 0 5 5 5	ON N	٥٥٥	100
ND = None Delected		Tem-Act = Tremofra-Aumofra			3	

Point Count Trace = Observed but not countable under protocol, < 0.25%

RESERVOIRS ENVIRONIMENTAL SERVICES, INC. NVLAP Accredited Laboratory #1896 TDH 30-0138

Page 3 of 4

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

Kaiser-Hill Analytical Services Division On-site Sample Analysis-01D0546, A. Gonzales March 05, 2001 PLM Short Report, Bulk 24 Hour RES 75658-1 Client Project: Date Samples Received: Analysis Type: RES Job Number: Turnaround: Clent

Client Sample Number	Lab ID Number	1670.	Physical Description	Portion of Total Sample (%)	ASBESTOS CONTENT BY LAYER	Non-Asbestos Fibrous Components	Non-Fibrous Components (%)
					Minera Visual		
		-			(%)		
761-03012001-05-001	EM 529569	4	White tape	600	CN		
		യ ധ	White mod w/white paint	17	QN N	စ္ကပ	100
). 	HBAI & ID TO TO THE	9/	2	<u>1</u>	85
761-03012001-05-002	EM 529570	≪ 5	White tape	22	CZ	ä	•
		<u>ں</u> م	white mud wiwhite paint White/tan drywall	10	2	, O	700
			177.40	20	2	15	382
761-03012001-05-003	EM 529571		White tape	ď			
		m (White mud w/while paint	40			۶ م
			Wnite/(an drywall	52	QN	. <u>r</u>	3 28
761-03012001-05-064	EM 529572	¥ 8	White mud w/white paint Brown mastin	20	ND ND	٥	3 20
			מיטיין ווומס וונ	 08	QN	LS:	35
763-03012001-05-005	EM 529573	∢	Gray resinous moterial	100	Ĉ	c	Ç
763-03012001-05-006	EM 529574	<u>م</u>	White resinous paint	П	4		3
	,	(A)	Black resinous material	2	2 2	φ (100
		ع د ع د	Black librous tar w/tan resin Valous from	22	Q	80 0	20 20
		- 1	STOWN FORTH	70	- QX	0	8
761-03012001-06-007	EM 529575	<i>⋝</i>	White resinous paint	ų,	G Z	(. (
		. .	Black resinous material	, to	2 2	-	8 5
		ر ا ا	Biack tiorous tar w/tan resin Valing foam	S	S	000	200
				ç	ON.	0	100
NO = None Detected		Trama-A	Tram-Act = Iremolia-Actincits			`	

Point Caunt Trace = Observed but not countable under protocol, $< 0.25 \, \mathrm{M}_\odot$

RESERVOIRS ENVIRONIMENTAL SERVICES, INC. NVLAP Accredited Laboratory \$1896 TDH 30-0136

Page 4 of 4

TABLE I. PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES 75658-1
Client:
Client Project;
Client Project;
Date Samples Received;
Analysis Type;
Turneround;
March C5, 2001
PLM Short Report, Bulk

Client	Lab ID		Dhimissi				
Sample Number	Number) sc	Description	Portion of Total	ASBESTOS CONTENT	Non-Asbestos	Non-Fibrous
		> ¢ •		Sample (%)	BY LAYER	Components (%)	[%]
		<u>.</u>			Minera! Visual		
					Estimata 19%1		
901-03012001-05-001	EM 529576	A White tape B White mud C White/fan c	White tape White mud w/white paint Whitefen drywal	V 80 15	ON NO	98	100
901-03012001-05-002	EM 529577	A White tape B White mud	White tape White mud w/white paint	10 t	Q Q Q	s 86	2 2 gg
901-0301 2001-05-003	EM 529578	,	Write/tan drywai! Weiss too	95		. c	3 88
		B White mud	White mud w/white paint White/tan drywell	10 85	9	98 0	2 00 8F
901-03012001-05-004	EM 529579	A White paint w B Brown mastic	White paint w/white mud Brown mastic	20	ON N	Ou	100 100
901-03012001-05-005	EM 529580	A White paint w	White paint w/white mud Brown mastic	25 75	ON S) O L	g 5
901-03012001-05-006	EM 529581	A White res B Black res C Black fib	White resinous paint Black resinous material Black fibrous tar witan resin	10 12	N N N	း ပဝင္ထ	100 100 100 100
901-03012001-05-007	EM 529582		Tellow Toam White fesinous paint Plankforay tesinous gament	20 50	ON CN	30 0	150
ND = Nane Dalbected		16	realizate literation	S.	CN	0	<u>5</u> (
TA = Trace, < 1% Visual Estámate		Point Count Trace	Point Count Trace - Observed bur rot conneals and reco	in a second second			1



COVER PAGE

March 29, 2001

Rocky Flats Environmental Technology Site

Ms. Shelly Johnsen

P.O. Box 464, Building 881 Golden, CO 80402-0464 Laboratory Report ID:

01032805

Laboratory Name:

JMTC IH Analytical Laboratory

Johns Manville Corporation 10100 W. Ute Avenue (80127)

P.O. Box 625005 Littleton, CO 80162-5005

303 978 2000

Laboratory Code:

JMANS

Subcontract Number: RIN:

800188SX6

Requestor:

01D0630

P.O./Charge Code:

EFDA1721

Andre Gonzalez

Dear Ms. Johnsen:

The Johns Manville Technical Center (JMTC) has performed the following analytical services as requested. The results are calculated based upon the information supplied on the submission form. All laboratory data has been filed and are available upon request. The JMTC IH Analytical Laboratory is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program (Certificate No. 056) and participates in the AIHA ELPAT program. If you have any questions, please call (303) 978-2584.

Scope of Work:

Requested	Bottle	Customer	Laboratory	Line Item	Sample
Analysis	Number(s)	Number(s)	ID Number	Code	Matrix
Beryllium	01D0630-001.001	901-03132001-05-001	01032805-001	NR01A001	WIPE
Beryllium	01D0630-002.001	901-03132001-05-002	01032805-002	NR01A001	WIPE
Beryllium	01D0630-003.001	761-03132001-05-001	01032805-003	NR01A001	WIPE
Beryllium	01D0630-004.001	761-03132001-05-002	01032805-004	NR01A001	WIPE
Beryllium	01D0630-005.001	761-03132001-05-003	01032805-005	NR01A001	WIPE
Beryllium	01D0630-006.001	761-03132001-05-004	01032805-006	NR01A001	WIPE
Beryllium	01D0630-007.001	550-03132001-05-001	01032805-007	NR01A001	WIPE
Beryllium	01D0630-008.001	550-03132001-05-002	01032805-008	NR01A001	WIPE
Beryllium	01D0630-009.001	762A-03222001-05-001	01032805-009	NR01A001	WIPE
Beryllium	01D0630-010.001	762A-03222001-05-002	01032805-010	NR01A001	WIPE
Beryllium	01D0630-011.001	762-03222001-05-001	01032805-011	NR01A001	WIPE
Beryllium	01D0630-012.001	762-03222001-05-002	01032805-012	NR01A001	WIPE
Beryllium	01D0630-013.001	792-03202001-05-001	01032805-013	NR01A001	WIPE
Beryllium	01D0630-014.001	792-03202001-05-002	01032805-014	NR01A001	WIPE
Beryllium	01D0630-015.001	792A-03222001-05-001	01032805-015	NR01A001	WIPE
Beryllium	01D0630-016.001	792A-03222001-05-002	01032805-016	NR01A001	WIPE

Comments: No problem were encountered with sample receiving and sample analysis

I certify that this sample data package is in compliance with SOW requirements, both technically and for completeness, other than the conditions detailed above. Release of the data contained in this hard-copy sample package and the computer-readable EDD, as applicable, submitted on diskette or by modem, has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Scott A. Steiner Industrial Hygiene Project Manager Date



March 29, 2001

Laboratory Report ID: 01032805

Laboratory Name:

JMTC IH Analytical Laboratory

Laboratory Code: Subcontract Number: JMANS 800188SX6

RIN:

01D0630

Requestor: P.O./Charge Code:

Andre Gonzalez EFDA1721

QUICK RESULTS SUMMARY

Line Item Code:	NR01A001	Reporting Limit:	0.1 μg
Sample Matrix:	WIPE	Date Received:	03/28/01
Analytical Method:	OSHA ID-125G	Date Analyzed:	03/29/01

Customer	Laboratory	Requested	C	ONCENTRAT	TION			Constituent
Number	ID Number	Analysis	Backup	Main	Total	T	Q	ID
901-03132001-05-001	01032805-001	Beryllium			< 0.1 μg	TR1	U	7440-41-7
901-03132001-05-002	01032805-002	Beryllium			< 0.1 μg	TR1	U	7440-41-7
761-03132001-05-001	01032805-003	Beryllium			< 0.1 μg	TR1	U	7440-41-7
761-03132001-05-002	01032805-004	Beryllium			< 0.1 μg	TR1	U	7440-41-7
761-03132001-05-003	01032805-005	Beryllium			< 0.1 μg	TR1	U	7440-41-7
761-03132001-05-004	01032805-006	Beryllium			< 0.1 μg	TR1	U	7440-41-7
550-03132001-05-001	01032805-007	Beryllium			< 0.1 μg	TR1	U	7440-41-7
550-03132001-05-002	01032805-008	Beryllium			< 0.1 μg	TR1	U	7440-41-7
762A-03222001-05-001	01032805-009	Beryllium			< 0.1 μg	TR1	U	7440-41-7
762A-03222001-05-002	01032805-010	Beryllium			< 0.1 μg	TR1	U	7440-41-7
762-03222001-05-001	01032805-011	Beryllium			< 0.1 μg	TR1	U	7440-41-7
762-03222001-05-002	01032805-012	Beryllium			< 0.1 μg	TR1	U	7440-41-7
792-03202001-05-001	01032805-013	Beryllium			< 0.1 μg	TR1	U	7440-41-7
792-03202001-05-002	01032805-014	Beryllium			< 0.1 μg	TR1	U	7440-41-7
792A-03222001-05-001	01032805-015	Beryllium			< 0.1 μg	TR1	U	7440-41-7
792A-03222001 - 05-002	01032805-016	Beryllium			< 0.1 μg	TR1	U	7440-41-7



RFP F 3791.32 (7/95) Formerly RF-47530

Rocky Flats Environmental Technology Site

Golden, CO 80402-0464
Safety and Hygiene Chain of Custody Record and Analysis Reduest

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Date: 3/4, /•,	REMARKS	1000 4001					*							The state of the s		A. Commence of the commence of		Received by	Received by	Received by	Received by	Seal# (Release #)	Condition of Seal:		Somments:	क के		
Bldg/Ext: //w/w/	MEDIA A Area Bulk		, July and the second s	150 mg/m 1 mg/m							The state of the s						>	Relinquished by	Relinquished by	Relinquished by	Relinquished by			Other				-
,	E SAMPLE TIME/																	Fime/Date Re	Time/Date Re	Time/Date Re	Time/Date Re	Analysis Request	Industrial Hygiene Sample	Rush	Asbestos Samples		Rush	0 1-1
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Name of Originator: Ask (2012 4)	NUMBER /D/P#/S#	100.50 -10	01-05-003	- 7	200.50.10		100-50-10	100-50-10013120-055	600-50-100	1001-05-001	1001-05-000	100:00:100	600 - 50 - 100	100-50-10	COO - 50 - 100	201-05-001	200-50-100	Relinquished by	Relinquished by	Relinquished by	Relinquished by	Report and Billing Instruction	Verbal To:	Report To:	_		Lab:	White
Name of O	SAMPLE NUMBER Bldg/Y/M/D/P#/S#	901-03132001-	901.021.2001	761-0818300	761-02132001	761-03152001	761-03152001	550-07173	550-03173031	745/4-0233300	Terrando Acar	762-03332001	764-07222001	791.0330200	742 03202001	7424 0833200	7914 03342001	Relingu	Relinqu	Relinqu	Relinqu		Kaiser-Hill A	SSOC	DynCorp	ISM ISM		

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Professi				4		SCR	SCREENING	SPECIAL INSTRUCTIONS Hold	Tare		
SS 19LE SAN e acid preserve e other known	POSSIBLE SAMPLE HAZARDSREDIARKS Are acid preserved samples DOT hazardous per 40 CFR-pag, 136 3 Table 117 Are cultur known hazardous substances present? YES or USO	MIARKS dous pet 40 CFR-5 present? YES orth	7.1363T	able IIP Y E	Yes ow	<u> </u>	REQUIRED			34	
14 F						Caetaixe	8	Sample Analysis	d):0s		Paestralive : Padding
Both No.	Customer	Matrix	Ž	Ties	Location	4 sent recommend		Roughe (Boothing Cillar Analysis) [Roughe	wisk) [Routine]		NA
١.	901-33132801- 05-6D1	FILTER	03V13/ 2001	7:00 AM	106				land from the		None
	901-03132001-	FILTER	2001	7.00 ABM	901	1-TERING		NR01A001 (Beryllium Filter Analysts) (Rosume)	aysis) [Routme]		Kone
الم	761-03(32001-	FILTER	2001	7:00 AM	781	1-FILTER / N/A		NR01A001 (Berylkum Filler Analysis) (Routine)	alysis) [Routine]		Nocie
٦	761-03132001-	FLTER	20013	7:00 AM	761	1-FILTER INVA		NR01A301 (Beryllium Filler Analysis) (Rouline)	aysis) (Rouline!		None
004.001	761-03132001-	FLTER	C3/13/	7:00 AM	781	1-FILTER/NA	1	NR01A001 (Beryllium Filter Amalysis) [Routine]	alysis) [Rouline]		T#A None
005.001	05-303	P T	mula.	7-00 AM	761	1-FILTER / N/A		NR01A001 (Beryllium Filter Analysis) [Routine]	alysis) [Routine]		NA
0150630- 005.001	761-03132001- 05-004	ra den	2007			<u>د</u> ا		And Acot (Bendium Filter Anglysis) (Routine)	atvsis) (Routine)		NOTE
0100630-	550-03132001- 05-001	FLTER	2001	7:00 AM	550				Received 39:		Монв Дам/Тич
Rein Blad By	3	Opportune (CO)	Roceived By	XXX		Sale Time	Ad-ext		7	3/22/01	1 10:90 Deterine
Refraguestal A	05.64	-	Riving By			Datelline	Response) 		į
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Commodore Advanced Sciences, Inc.	-							
		J	CHAIN	or coston	TWYC/I			Page 2 of 2
2				à		Telephone No.		
		<u>. </u>	OFNSEN S	SHELLY		- 1		Presavaine
O1D0630 Chaterer	1	ä	ž	Lycation	Cottainer (1200)ypo/quantity)			Packing.
Buffe No. Marsder	+			KRD	1-FILTERINA	A INRO1A001 (Beryllium Filter Analysis) [Routine]	is) [Routine]	\$
O1D0630- 550-03132001-	PLTER.	2001	7.06 AM		N			None A/A
1.	- FILTER	2007	7:00 AM	762A	1-FILTER/NA	A NRO(ACO1 (Beryllium Filler Analysis) (Rouline)	is) (Kouline)	None
- 1	FRITER	03328	7.00 A.u	762A	1-FILTER/NA	A NR01A001 (Beryllium Filter Analysis) [Rouline]	is) [Rouline]	MA
010.001 05.002		7002			1.EN TER / NA	A NEGATOR (Recytting Filter Analysis) (Routine)	is) (Routine)	WA
01DD630- 762-03272401- 011.001 05-001	FILTER	2001	7:00 AN	762	All of the state o		is) Routine!	Nore
01D0630- 762-03222001- 012-001-05-002	FALTER	2001	7:00 AM	762	J.		is) (Reviline)	Hone
01D0630- 792-03202001-	HITER	2007	7:00 AM	782	1-FILTER I NIA	$\overline{}$	Salanovi (et	Nonie
0100630- 792-03202001-	- FILTER	2002	7:00 2461	797	1-FRTER/WA		(St. Koutine)	Rora
01E0630- 782A-fi3222001-	n. MLTER	43,227	WY 00:2	792A	AFRITER I MA	// NR01A001 (Berylkum Filter Analysis) [Routine]	sis) [Routine]	None
- 1	FILTER	02727	7:C0 AM	782A	1-FILTER/NA	A NR01A001 (Beryllium Filter Analysis) [Routine]	sis) [Routine]	N.A.
011,88530- 18,5002 05-502		2007						
				0	11.1			
		1		P	, 03 ₁	10/44/80		
				a	Daraffine Refa	Ref. squibbé By: Date/Inn	Reprint By:)
Red Side 19	15.00 J. 15.00			\			12 Mate	3/28/01 10:40 Date: Date:
Rechamber 13-64		Record By:	\$\ \ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	1	Dale/Tiera Britin	Take Common	de la company de	
Relinguished By.	DateTime	Reseived By:		1	Date/Line Refer	Reforms Date Suns	Recent of By.	JAKO LADE
Reinoviched By:	Dacelitate	Keccived By:	-By:	I	Detelline Refer	Referentiated By: Darel inve	Received By:	Edd Visite
	the capture of partial to capture to deposed of partial	Carifornet, Si	Spend of per 14	Procedure, need in smalyfard process	cal practices	Disposed By	N	Diss Time

RE-DEMOLITION SURVEY FOR SECURITY CLU

Survey Area: A

Survey Unit: SEC-A-002

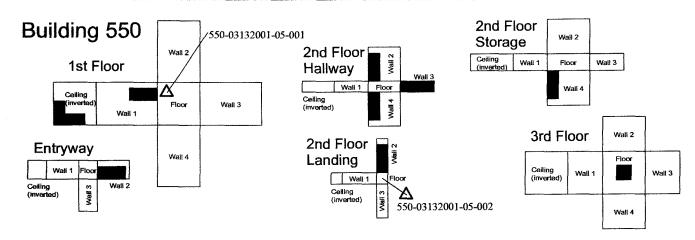
Classification: N/A

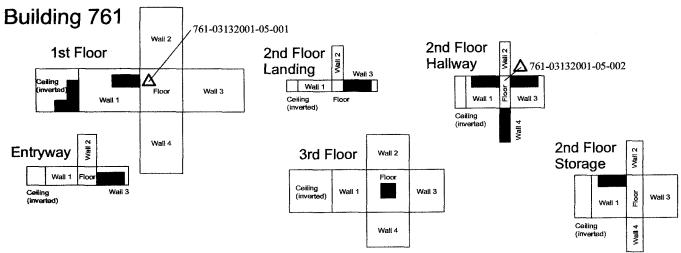
Survey Area: A

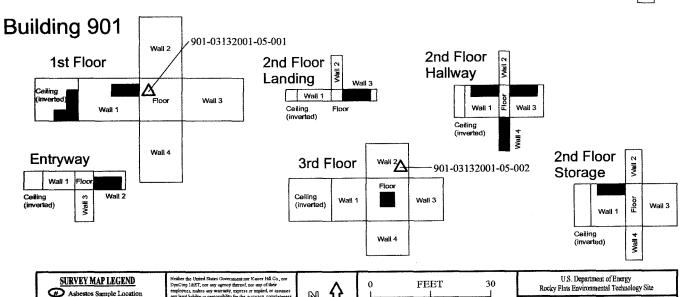
Building: 550, 761, 901

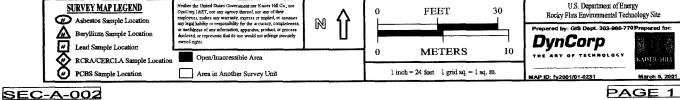
Survey Unit Description: Interiors (1st floor < 8 ft.)

Total Area: 661 sq. m. Total Floor Area: 86 sq. m.









PRE-DEMOLITION SURVEY FOR SECURITY CLUSTER

Survey Area: A

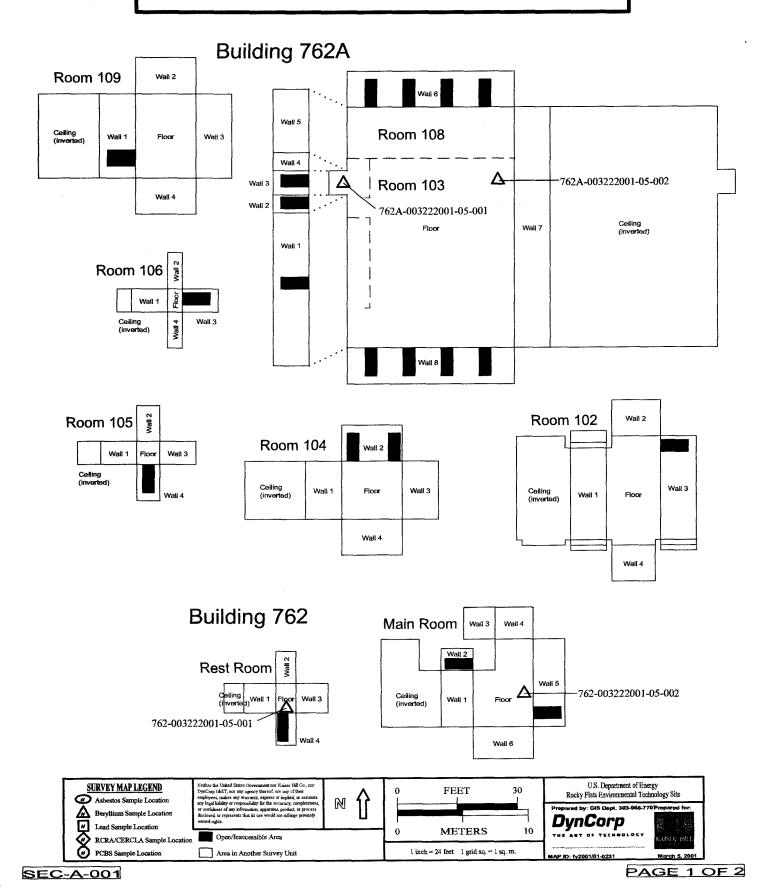
Survey Unit: SEC-A-001

Classification: N/A

Building: 762, 762A, 792, 792A Survey Unit Description: Interiors

Total Area: 1820 sq. m.

Total Floor Area: 516 sq. m.



2

RE-DEMOLITION SURVEY FOR SECURITY CLUSTER

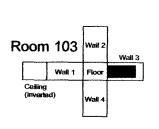
Survey Unit: SEC-A-001

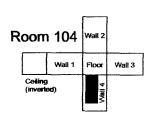
Classification: N/A

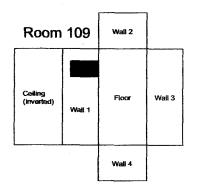
Survey Area: A Survey Un Building: 762, 762A, 792, 792A Survey Unit Description: Interiors Total Area: 1820 sq. m.

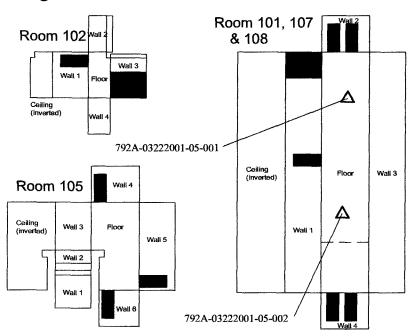
Total Floor Area: 516 sq. m.

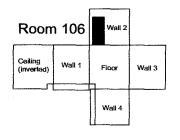
Building 792A



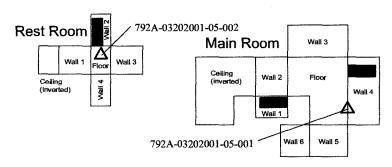








Building 792



SURVEY MAP LEGEND Asbestos Sample Location	Neither the United States Government aor Kaiser Hill Co., nor DynCorp 1eET, nor any agency thereof nor any of their employees, makes any worranty, express or susplied, or assumes any legal balding or responsibly for the accuracy, completeness,	N 1	7	0	FEET	30	U.S. Department of Ener Rocky Flats Environmental Tech	
Beryllium Sample Location Beryllium Sample Location	or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owners rights.	10 L]	-			Prepared by: GIS Dept. 303-966-77	Prepared for:
RCRA/CERCLA Sample Location	Open/Inaccessible Area			0	METERS	10	THE ART OF TECHNOLOGY	KAISER HILL
# PCBS Sample Location	Area in Another Survey Unit			l inc	h = 24 feet 1 grid sq. = 1	sq. m.	MAP ID: fy2001/01-0231	March 5, 2001

Parsons, Duane

From: Parsons, Duane

Sent: Wednesday, February 28, 2001 9:34 AM

To: Gonzalez, Andre; Britten, Jay

Cc: Beedle, Bill

Subject: Gaurd Tower Access

In order to gain access into the Guard Towers (550, 761,901) for characterization work, you need to do the following:

You must have a Q-cleared person in the building.

Don't touch any computer or electronic equipment.

Contact Security before you need access and after you exit the building. Tell them you need key service into the buildings to perform D&D characterization work. Give them a day or so notice and then call them again the day you need to get in.

Point-of-Contacts are as follows:

1st Bill Beedle, x7179, dp 212-1870

2nd Lou Richmond, x8361 3rd Tom Horton, x9776

4th Larry Barela, 6194

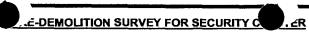
We are on the Security Force POD for the next two weeks, so try to get all your work done during this period. Thanks.

Duane Parsons

RISS Facility Characterization Coordinator

Phone: 303-966-6458 Pager: 303-212-3734 Fax: 303-966-6678





Survey Unit: SEC-A-001

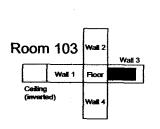
Classification: N/A

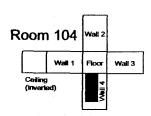
Survey Area: A Survey U Building: 762, 762A, 792, 792A Survey Unit Description: Interiors Total Area: 1820 sq. m.

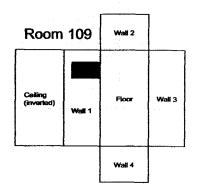
Total Floor Area: 516 sq. m.

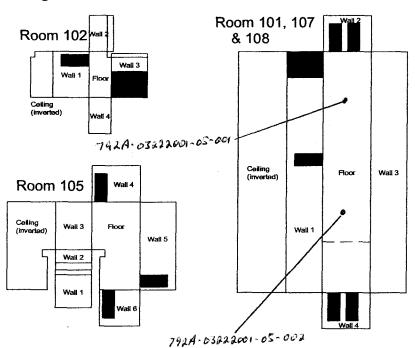
Beryllium Sample Locations

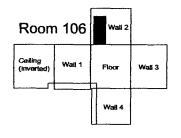
Building 792A



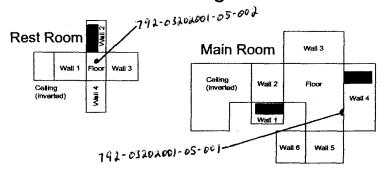




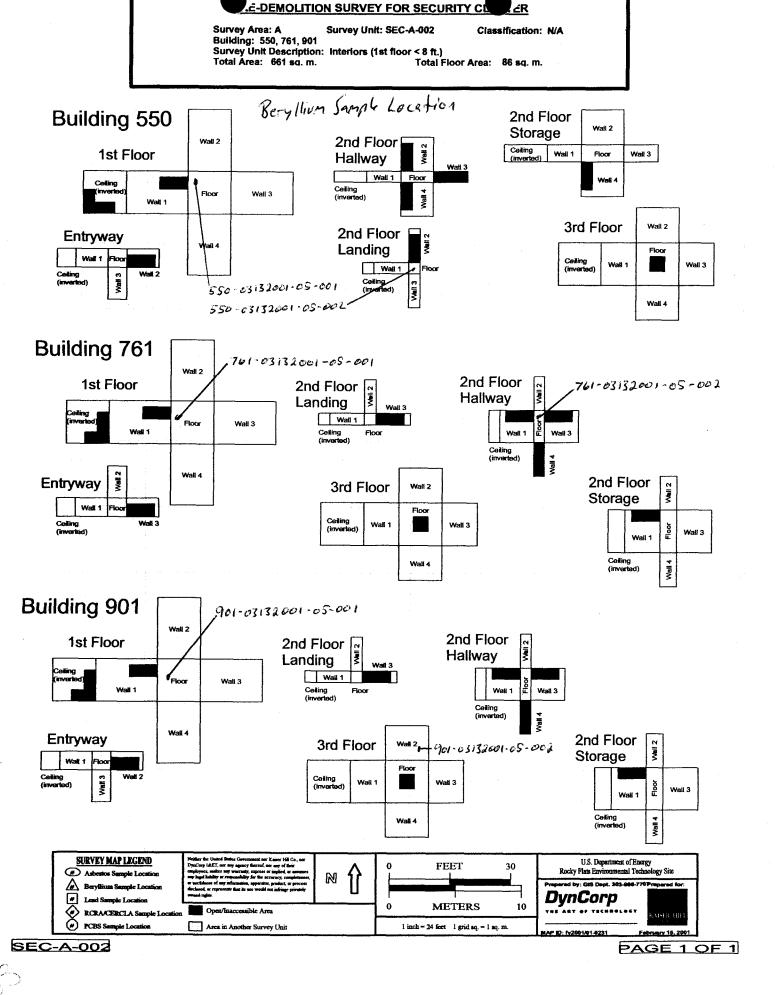


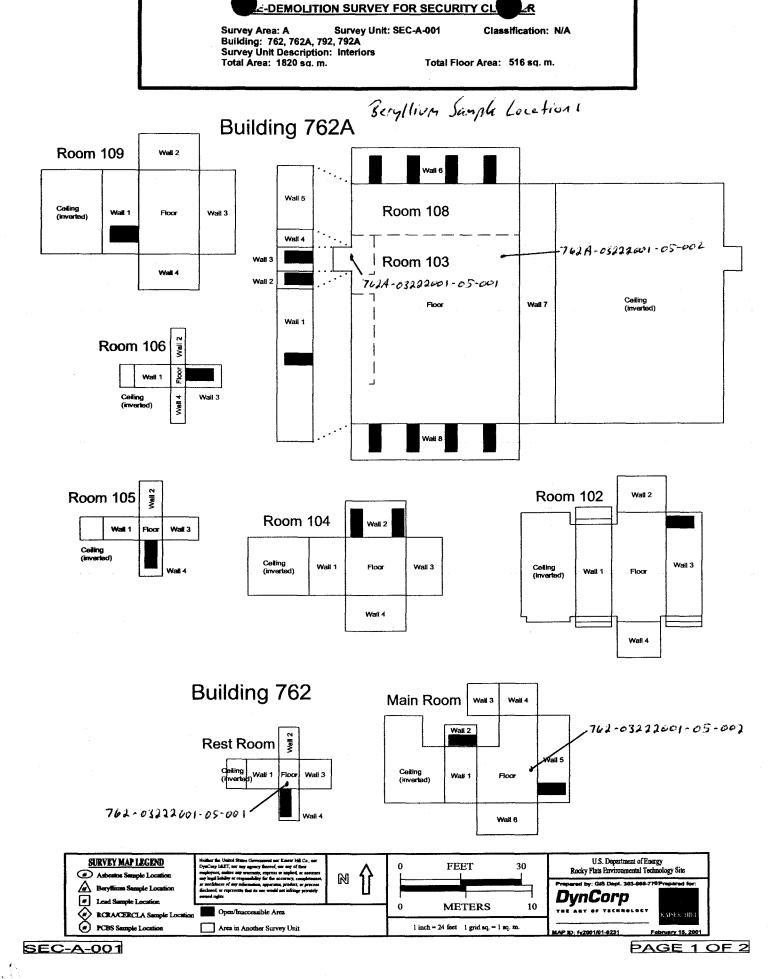


Building 792



SURVEY MAP LEGEND Asbestos Sample Location	Meither the United States Covenment nor Knieer Hill Co., nor DysCorp L&ET, nor any agency flucted, nor any of their employees, makes any twarranty, express or suspiced, or assumos- any logid lobby or respensibly for the accuracy, completeness.	120	Δ	0	FEET L	30	U.S. Department of Energy Rocky Flats Environmental Technology Site
Beryttium Sample Location Lead Sample Location	or technicas of any information, apparatus, product, or process disclosed, or represents that its use would have infringe privately owned rights.	iSi.	U				Prepared by: GIS Dapt. 363-966-778 Prepared for: DynCorp
RORA/CERCIA Sample Location	Open/Inaccessible Area			0	METERS	10	THE ART OF TECHBOLOGY RAINER HELL
PCBS Sample Location	Area in Another Survey Unit			1 in	ch = 24 feet 1 grid sq. = 1	sq. m.	MAP ID: fy2001/01-0231 February 15, 2001





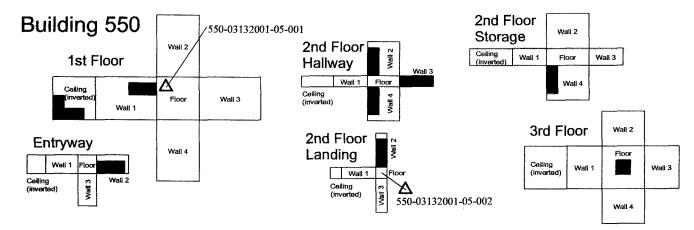
RE-DEMOLITION SURVEY FOR SECURITY CLU

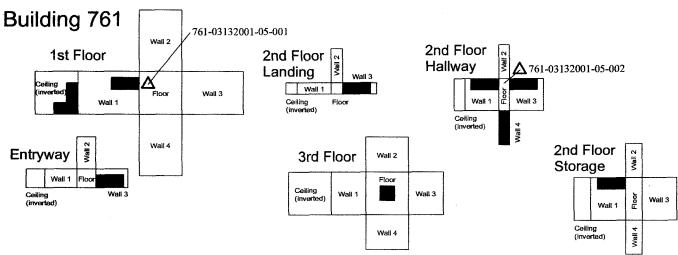
Survey Area: A

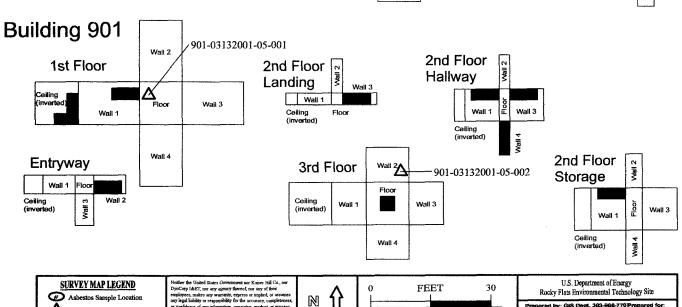
Survey Unit: SEC-A-002

Classification: N/A

Survey Area: A Survey Sim. S20-A322 Glassification. Building: 550, 761, 901
Survey Unit Description: Interiors (1st floor < 8 ft.)
Total Area: 661 sq. m. Total Floor Area: 86 sq. m.

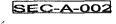






Open/Inaccessible Area

Area in Another Survey Unit



RCRA/CERCLA Sample Location

PCBS Sample Location

DynCorp

MAP ID: fy2001/01-0231

METERS

1 inch = 24 feet 1 grid sq. = 1 sq. m.

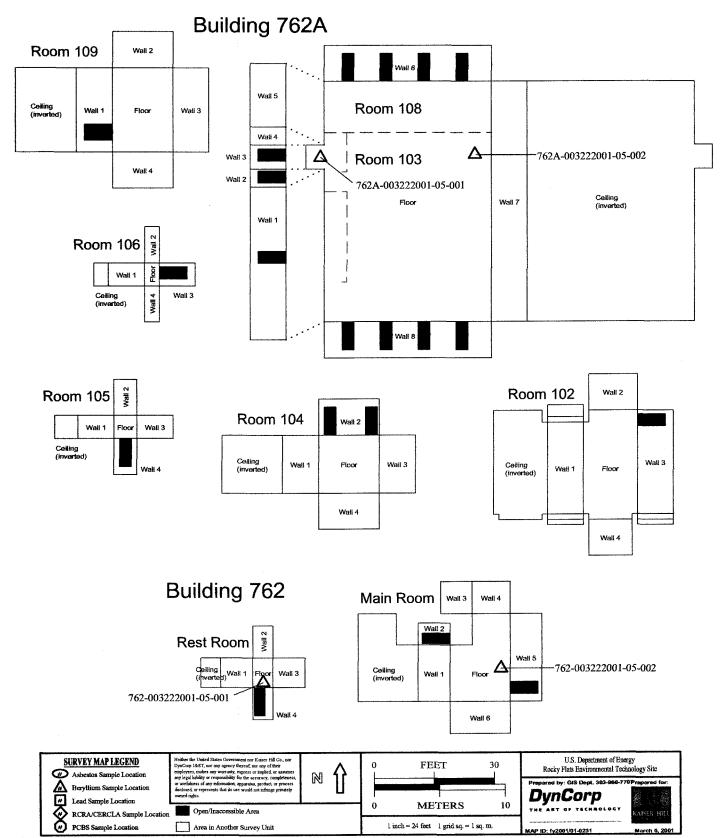
RE-DEMOLITION SURVEY FOR SECURITY CLU

Survey Unit: SEC-A-001

Classification: N/A

Survey Area: A Survey Un Building: 762, 762A, 792, 792A Survey Unit Description: Interiors Total Area: 1820 sq. m.

Total Floor Area: 516 sq. m.



SEC-A-001

Survey Unit: SEC-A-001

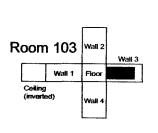
Classification: N/A

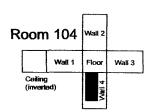
Survey Area: A Survey Un Building: 762, 762A, 792, 792A Survey Unit Description: Interiors

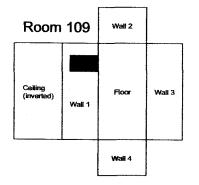
Total Area: 1820 sq. m.

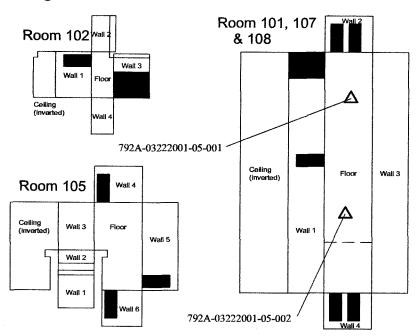
Total Floor Area: 516 sq. m.

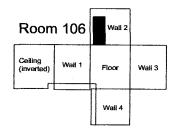
Building 792A



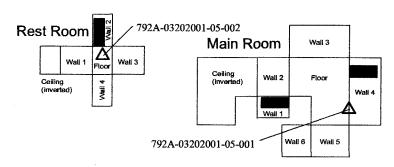








Building 792



SURVEY MAP LEGEND # Asbestos Sample Location Beyllium Sample Location Lead Sample Location	Neither the United States Government one Kaiser Hill Co., nor DysGorp IAET, nor any against thereof, nor any of their employees, makes any warranter, engines in register, or assumes any logal helidity or responsibility for the accuracy, completeness, or unclinites of any information, appeals, promise, or proceed, accident, or represents that its use would not infringe privately roundingsts.	N {	}	0 FEET		30	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GIS Dept. 303-966-770Prepared for: DVNCOPP	
RCRA/CERCLA Sample Location	Open/Inaccessible Area			0	METERS	10	THE ART OF TRCHNOLOGY	KAISER HILL
# PCBS Sample Location	Area in Another Survey Unit			1 inch = 24 feet 1 grid sq. = 1 sq. m.			MAP ID: fy2001/01-0231	March 5, 2001

SEC-A-001

PAGE 2 OF 2

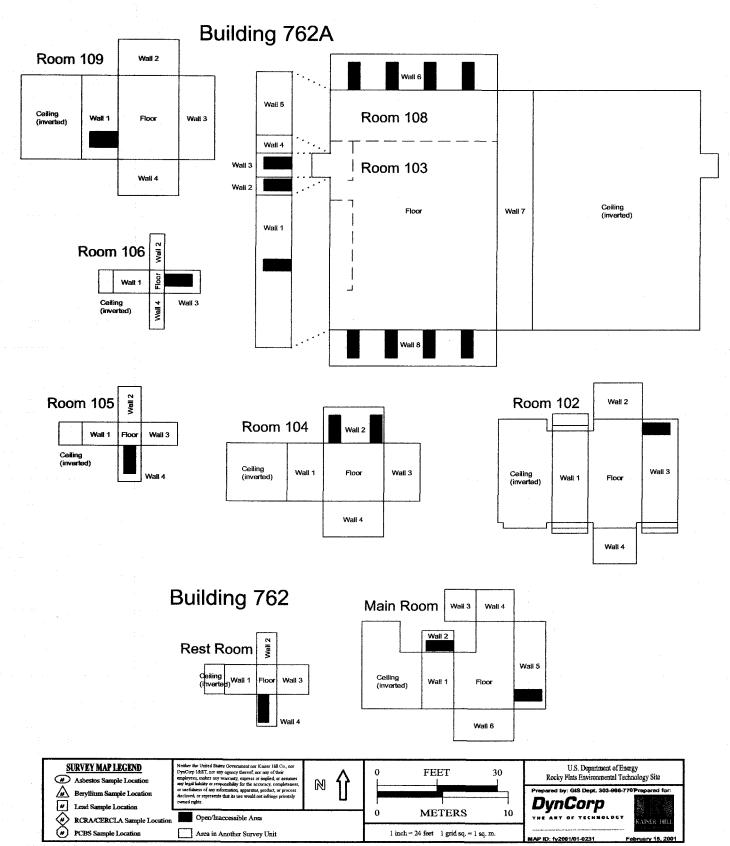
Survey Unit: SEC-A-001

Classification: N/A

Survey Area: A Survey Un Building: 762, 762A, 792, 792A Survey Unit Description: Interiors

Total Area: 1820 sq. m.

Total Floor Area: 516 sq. m.



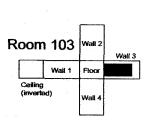
SEC-A-001

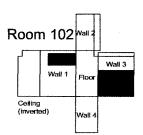
Classification: N/A

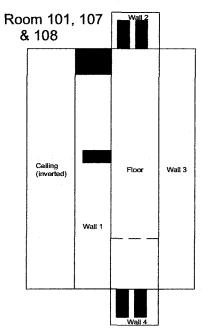
Survey Area: A Survey Unit: SEC-A-001 Building: 762, 762A, 792, 792A Survey Unit Description: Interiors Total Area: 1820 sq. m. Total

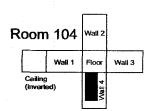
Total Floor Area: 516 sq. m.

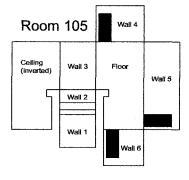
Building 792A

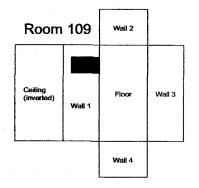


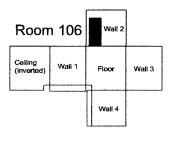




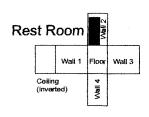


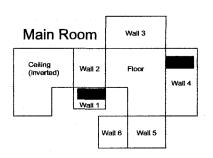






Building 792





SURVEY MAP LEGEND Asbestos Sample Location	Neither the United States Government nor Kaiser Hill Co., nor DynCorp LeET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal lability or responsibility for the accuracy, completeness, or usefulness of says information, appearable, product, or process	N A	0	FEET	30	U.S. Department of Energy Rocky Flats Environmental Technology Site Prepared by: GHS Dapt. 303-669-770Prepared for:
Beryllium Sample Location # Lead Sample Location	to use turners or any minermanne, appearance, product, or process disclosed, or represents that its use would not infringe privately owned rights.	U				DynCorp
RCRA/CERCLA Sample Location	Open/Inaccessible Area		0	METERS	10	THE ART OF TECHNOLOGY KAISER HILL
PCBS Sample Location	Area in Another Survey Unit	1 inch = 24 feet 1 grid sq. = 1 sq. m.			MAP ID: fy2001/01-0231 February 15, 2001	



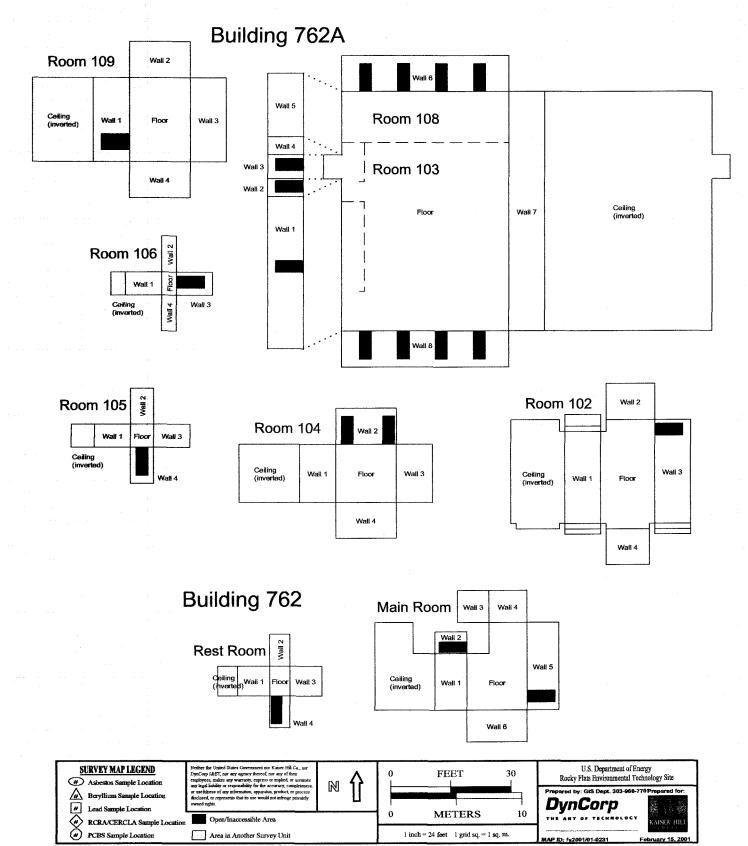
Survey Unit: SEC-A-001

Building: 762, 762A, 792, 792A Survey Unit Description: Interiors

Total Area: 1820 sq. m.

Classification: N/A

Total Floor Area: 516 sq. m.



SEC-A-001

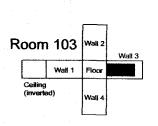
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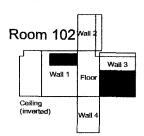
Classification: N/A

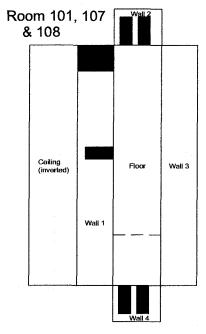
Survey Area: A Survey U Building: 762, 762A, 792, 792A Survey Unit Description: Interiors Total Area: 1820 sq. m.

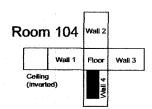
Total Floor Area: 516 sq. m.

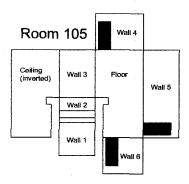
Building 792A

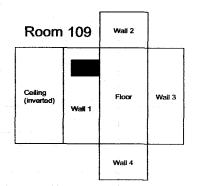


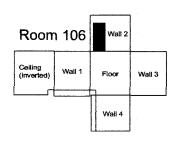




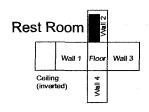


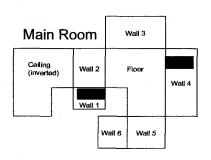


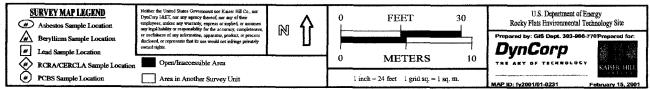




Building 792







Survey Area: A

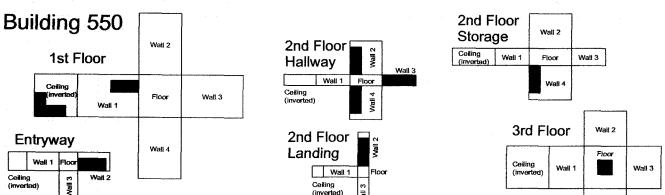
Survey Unit: SEC-A-002

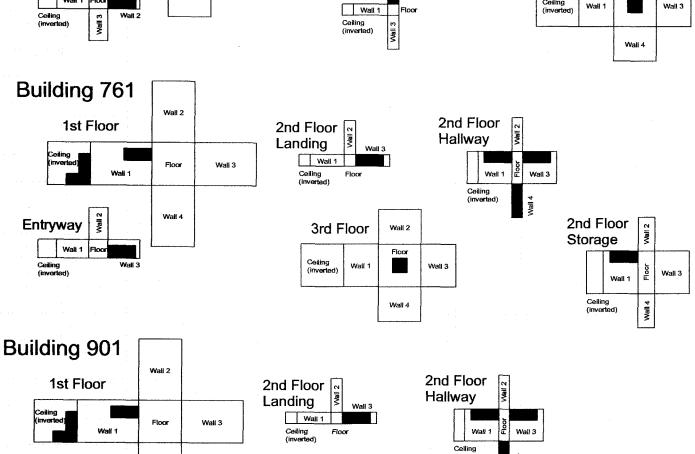
Classification: N/A

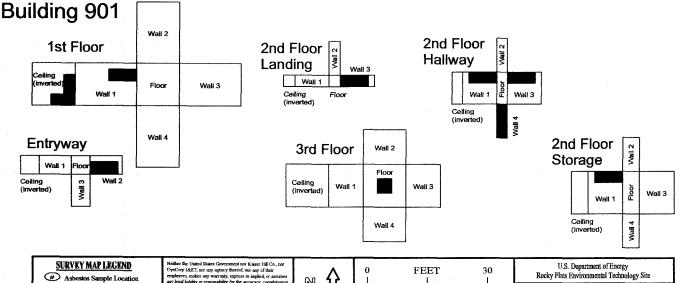
Building: 550, 761, 901

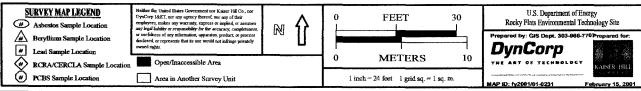
Survey Unit Description: Interiors (1st floor < 8 ft.)

Total Area: 661 sq. m. Total Floor Area: 86 sq. m.











Survey Area: A

Survey Unit: SEC-A-002

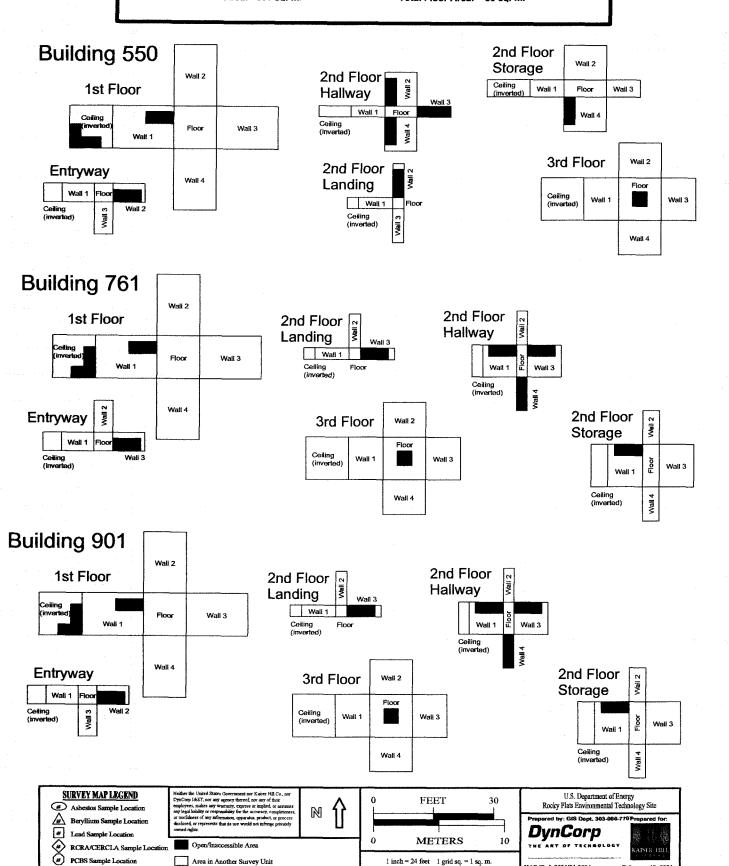
Classification: N/A

Building: 550, 761, 901

Survey Unit Description: Interiors (1st floor < 8 ft.)

Total Area: 661 sq. m.

Total Floor Area: 86 sq. m.



1 inch = 24 feet 1 grid sq. = 1 sq. m.

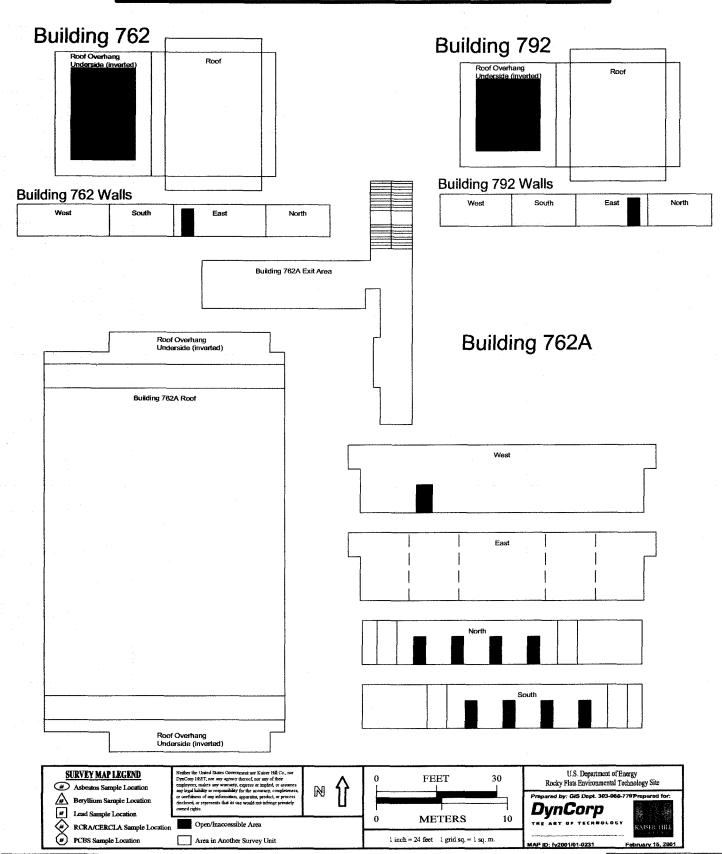
MAP ID: fv2001/01-0231

Survey Area: B Survey Unit: SEC-B-003 Building: 762, 762A, 792, 792A, 550, 761, 901 Survey Unit Description: Exteriors

Total Area: 2613 sq. m.

Total Floor Area: 137 sq. m.

Classification: N/A



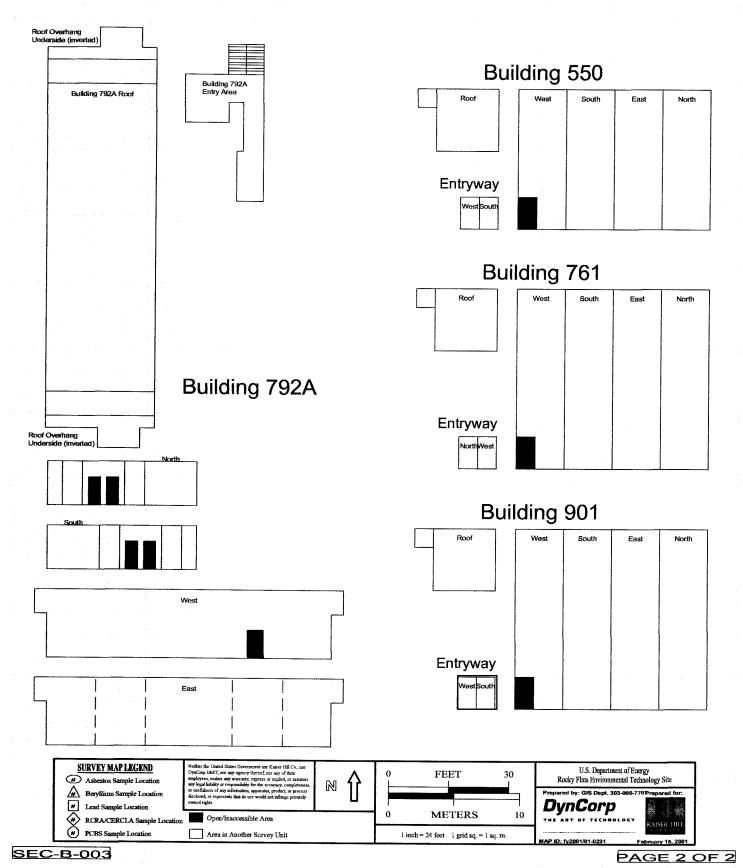
Survey Area: B Survey Unit: SEC-B-003 Building: 762, 762A, 792, 792A, 550, 761, 901

Survey Unit Description: Exteriors

Total Area: 2613 sq. m.

Classification: N/A

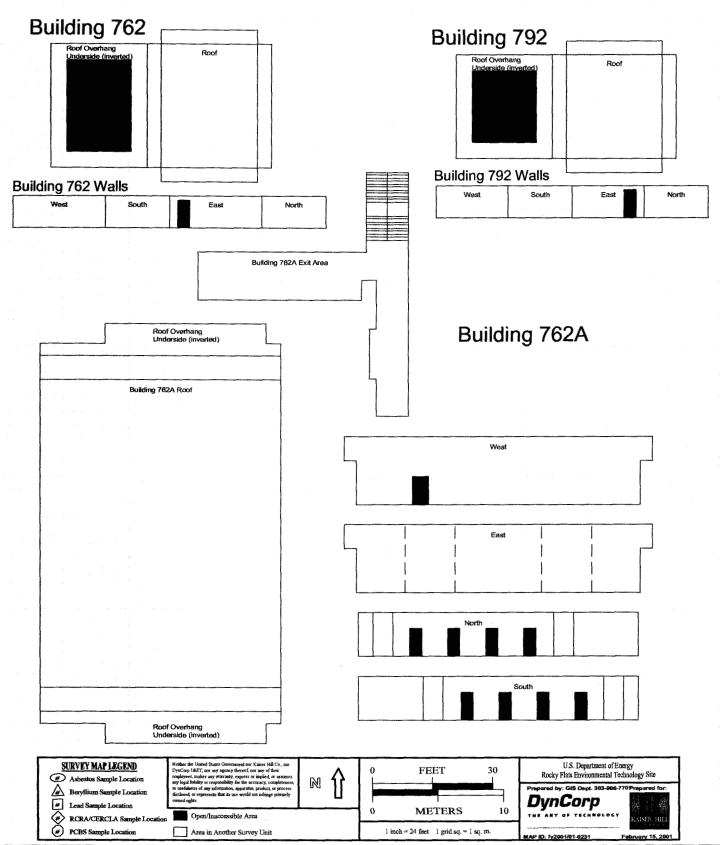
Total Floor Area: 137 sq. m.



Survey Area: B Survey Unit: SEC-B-003
Building: 762, 762A, 792, 792A, 550, 761, 901
Survey Unit Description: Exteriors
Total Area: 2613 sq. m.

Total Floor Area: 137 sq. m.

Classification: N/A

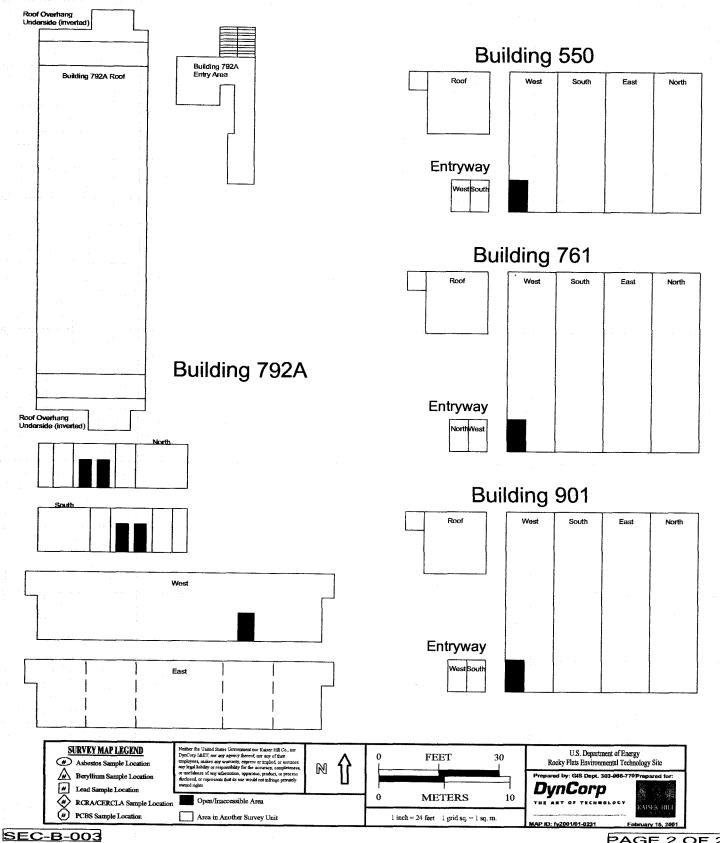


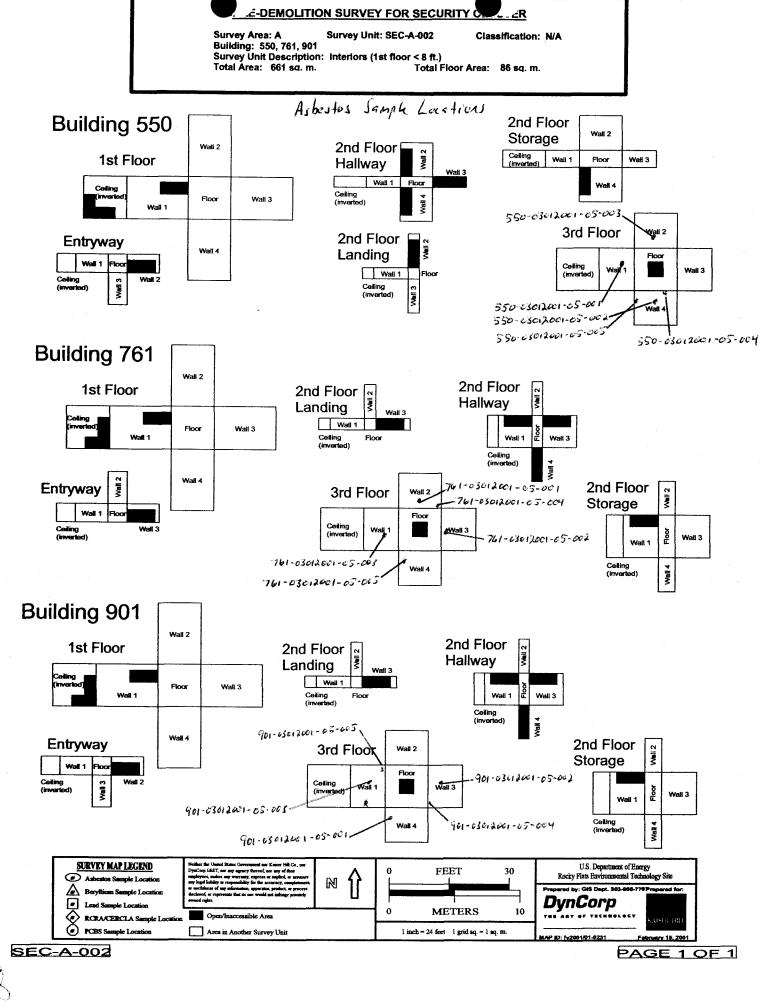
SEC-B-003

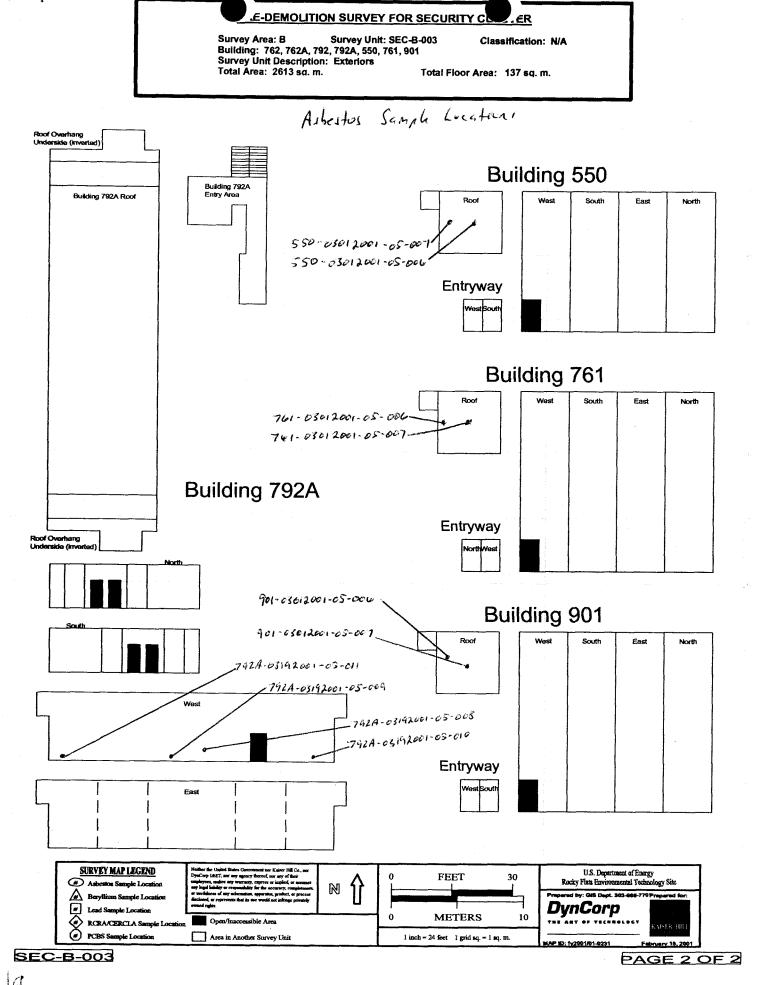
Survey Area: B Survey Unit: SEC-B-003
Building: 762, 762A, 792, 792A, 550, 761, 901
Survey Unit Description: Exteriors
Total Area: 2613 sq. m. Total

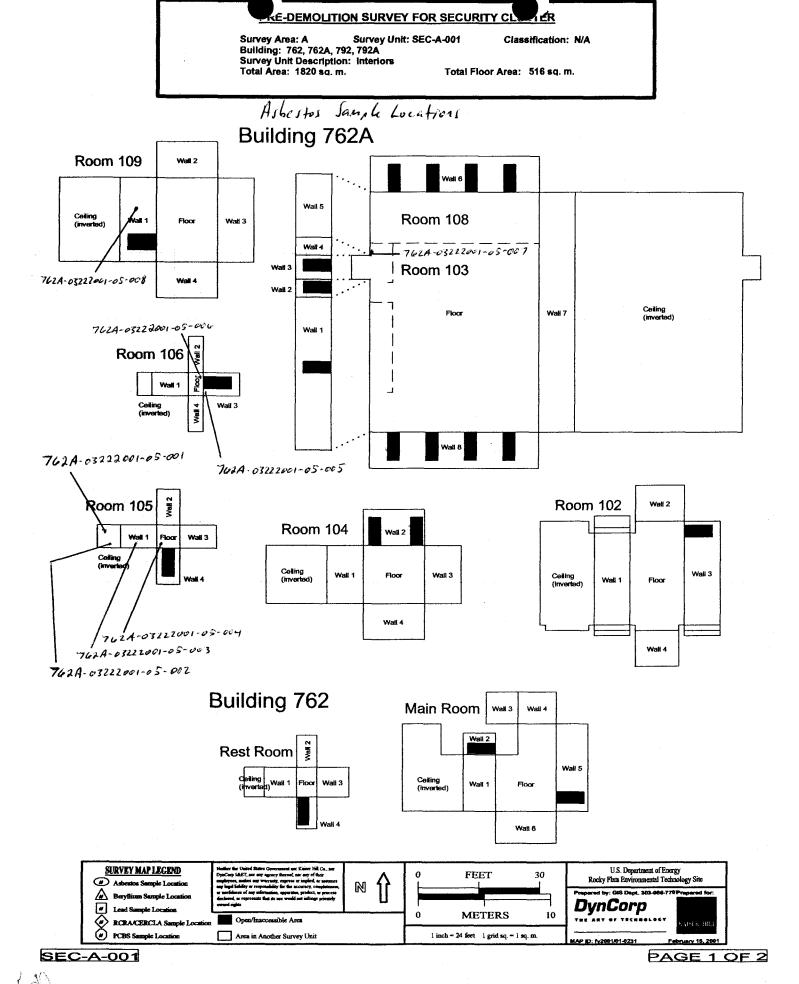
Total Floor Area: 137 sq. m.

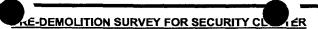
Classification: N/A











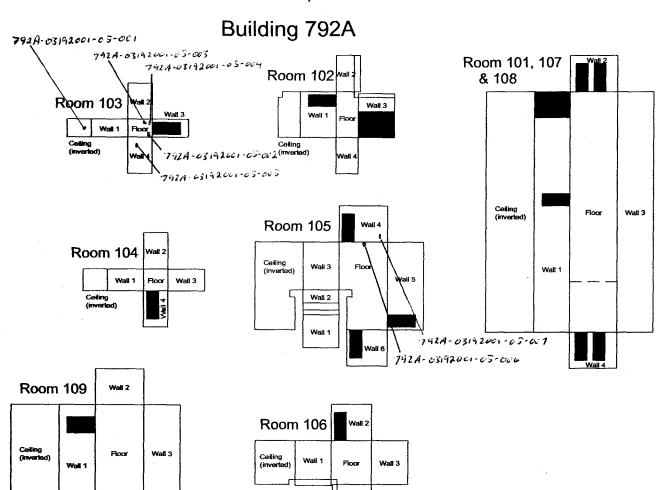
Survey Area: A Survey Building: 762, 762A, 792, 792A Survey Unit: SEC-A-001

Classification: N/A

Survey Unit Description: Interiors

Total Area: 1820 sq. m. Total Floor Area: 516 sq. m.

Asbertos Sample Locations



Building 792

